



Presto Stantest Pvt. Ltd.

I-42, DLF Industrial Area Phase-1, Delhi Mathura Road, Faridabad 121003, Haryana, India
P : 9210 903 903, +91 129 4272727, 93111 24302 E : info@prestogroup.com

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Walk in Temperature Humidity Chamber



Model :WIC Series

A temperature humidity chamber is a controlled environmental device that creates and maintains precise humidity and temperature levels over time for testing purposes.

A temperature control chamber allows manufacturers to replicate real-world environmental conditions and assess how products behave over time. By exposing materials to controlled humidity and temperature cycles, the chamber helps reveal changes in performance, durability, and overall product quality to meet international standards.

A humidity temperature chamber can be used to perform tests according to international standards such as IEC, JIS, ASTM, ISO, and DIN, depending on the specific test method being followed.

With its robust design and state-of-the-art technology, Presto's Walk-In temperature test chamber offers a comprehensive solution for conducting accelerated aging tests, stability studies, and environmental simulations. Whether testing components, materials, or finished products, trust Presto to provide a controlled testing environment tailored to your exact specifications. Our constant temperature chamber enables you to validate product quality, identify potential weaknesses, and ensure compliance with industry regulations. Experience peace of mind knowing your products undergo rigorous testing in a controlled and reliable environment, backed by Presto's commitment to excellence and customer satisfaction. Elevate your testing capabilities with Presto Enviro' Walk-In Test Chamber, setting the standard for precision and reliability in environmental testing.





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Features

- There can be seen no frosting even if the test is conducted for a long duration under Low temperature and low humidity parameters.
- The chamber consists of Automatic control system refrigerant which improves user experience.
- Able to Set Cyclic Test Functions with user ease.
- A timer would be provided upto 999 hours for auto cut off
- Safety features would be incorporated to ensure that the temperature does not rise beyond parameters set by the user
- Touch screen HMI Based Display of parameters with data logging available.
- Compact size with castor wheels to move the chamber in the laboratory
- Thick Tempered glass to ensure zero leakages and maximum thermal insulation
- Multiple samples can be placed inside the chamber with the help of Stainless steel Trays & Racks
- Inside Material of Construction: Corrosion Resistant Stainless steel (SS) Material
- Blower Fans to ensure 360 degree rotation of Temperature & Humidity
- Branded Sensors to ensure highest level of Accuracy and Precision
- Japanese Technology Insulation material is made of polyurethane foam.
- In built Advanced Safety Control System
- In built LED light to ensure easy sample viewing

Touch Screen Interface - TechMaster

- Microprocessor based model with auto tuning feature
- Run time vs temperature graph on screen
- Data recording with temperature data reading
- USB and pen drive option available to extra data easily
- Option available to set PV and SV value
- Knox system integrated for data security
- User settings can be locked by admin panel protected by password
- User can control PID settings through Advanced setting
- In built Alarm system
- Interchangeable Languages- Hindi & English
- Pass/Fail Report Criteria in System Generated Report
- Viewable Fault History/ Past Reports
- Email Notification Facility for user ease
- Remote Monitoring facility for easy data Management
- In built LED light Control System
- Option available to set PV and SV value



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Safety- Test Guardian

- Environmental Test chamber equipped with multiple safety functions like:
- Seven-point alarm function which consists of multiple alarms which provide the user with live notification of any faults in the Chamber.
- Overshoot Temperature Alarm
- Test Completion Alarm
- Water Level Low indication
- Remote Monitoring Alarm System: User shall receive all notifications regarding any fluctuation in parameters or settings to ensure immediate rectifications.
- Emergency Shutdown Mechanism: Manual/ Automatic Shutdown mechanism
- Insulation: Insulating materials and coatings to prevent electrical contact and reduce the risk of electric shock.
- SSR relay for enhanced safety function

Advanced Technology Features

- The walk-in temperature along with the humidity test chamber has the world's primary built-in USB2.0 port interface & digital recorder (can swap at any time).
- High-end touchscreen system with vertical color layout & dual-lingual set-up.
- The world's first test to be the end of the evaluation back to normal temperature protection mechanism.
- Application to big & larger size products.
- Standard modular design stainless steel plate and salt steel as the main material.
- Corresponding schemes as per consumer requirement to ensure maximum satisfaction.
- Can open the indoor. Security door and leakage circuit breaker protection device.
- Safeguarding power supply with synchronous safety control & safety protection device for testing products.
- RO reverse osmosis water with automatic water filter associated for humidity using.
- Inner box SUS#304; Outer case: color steel plate material.
- Firm & powerful German bock semi-hermetic compressor.
- Four group Server Valve, the most appropriate amount of refrigerant control.
- Energy-saving 30%, water-saving 20%; Environment-friendly refrigerant
- Four groups of temperature. A set of humidity sensor control
- Heating load automatic servo control to adjust refrigerant flow rate, which can withstand the traditional constant temperature and humidity room heat load of more than 3 times





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Specifications

	Model	PT-WIC-080	PT-WIC-120	PT-WIC-160	PT-WIC250	PT-WIC-40	PT-WIC-400
Temperature	Humidity control range	-65°C ~ 80°C(+15°C) (A : 0°C ~ 80°C; B : -20°C ~ 80°C; C : -40°C ~ 80°C; D :-65°C ~ 80°C)					
	Temperature fluctuation	±0.5°C					
	Cooling rate	80.0°C ~ 25.0°C Cooling rate 2.0 ~ 3.0°C/min 25.0°C ~ -40.0°C Cooling rate 1.0 ~ 2.0°C/min -40.0°C ~ -65.0°C Cooling rate 0.7 ~ 1.5°C/min					
	Heating rate	-65.0°C ~ 80.0°C Within 70 mins 2.0 ~ 5.0°C/min					
	Temperature uniformity	±2.0°C (-40.0°C ~ 80.0°C) ±2.5°C (-40.0°C ~ -65.0°C)					
Humidity	Humidity control range	20.0%RH ~ 95.0%RH					
	Humidity fluctuation	±1.5% RH					
	Humidity unif ormity	±3.0%RH					
Material / components	Internal material	Stainless steel(SUS304)					
	External material	Cold rolled steel sheet / powder spraying					
	Heat insulating material	100mm thickness poly urethane plate + 10mm thickness mineral wool					
	Evaporator	Fin - and - Tube Heat Exchanger					
	Fan	Centrifugal blower					
	Compressor	Semi-closed Germany Bock, Germany Bitzer					
	Condenser	Water-cooled					
	Refrigerant	R404A, R23, R508					
	Evaporator	Fin - and - Tube Heat Exchanger					
	Heater	Nickel chromium alloy heating wire					
Size	Humidifier	Steam humidifier					
	Interior size(mm) W*H*D	1970*2100*1970	3020*2100*1970	4070*2100*1970	3020*2100*4070	4070*2100*4070	5120*2100*4070
	Outer size(mm) W*H*D	2170*2350*3500	3220*2350*3500	4270*2350*3500	4270*2350*4270	5720*2350*4270	5320*2350*6150
	Volume (L)	8.0m³	12.0m³	16.0m³	25.0m³	34.0m³	40.0m³
Operating ambient temperature	+5 ~ 35°C						
Power supply	380V AC 50/60Hz						
Controller	Presto Programmed						

